

**BRUHATH BENGALURU MAHANAGARA PALIKE**  
Yelahanka Division, Yelahanka Zone

Executive Engineer  
Yelahanka Division  
B.B.M.P. Bengaluru - 64

No:EE/YNK-D/E-PMT/10/2020-21 Dated: 23-02-2021

**APPROVED TENDER SCHEDULE -'B'**

Item 01

Name of Work :- Providing RO Plant at General Hosppital Yelahanka Ward No 1

| SI | Description                                                                                                                                                                                                                                                                                                                                                                                                              | Unit | Approved Qty | Rate quoted by the contractor<br>approved rates<br>Sri.SHIVAKUMAR N |                                             |
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|    |                                                                                                                                                                                                                                                                                                                                                                                                                          |      |              | Rate                                                                | Rate in Words                               |
| 1  | Earth work excavation for foundation of building, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depyh including the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of clods complete as per specification                         | Cum  | 41.76        | 484.00                                                              | Four Hundred EightyFour Only                |
| 2  | Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. | Cum  | 3.36         | 5609.00                                                             | Five Thousand Six Hundred Nine Only         |
| 3  | Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:8, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.                                                                                                                           | Cum  | 4.24         | 4853.00                                                             | Four Thousand Eight Hundred FiftyThree Only |
| 4  | Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.                                                                                                                   | Cum  | 3.18         | 4963.00                                                             | Four Thousand Nine Hundred SixtyThree Only  |

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|   | roviding flush pointing to square rubble, course or uncoursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, HOM curing complete as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Sqm   | 7.06  | 152.00   | One Hundred FiftyTwo Only                     |
| 6 | Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggretes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, ,pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. | Cum   | 3.77  | 6528.00  | Six Thousand Five Hundred TwentyEight Only    |
| 7 | KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                | Tonne | 0.21  | 69562.00 | SixtyNine Thousand Five Hundred SixtyTwo Only |
| 8 | KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sqm   | 45.34 | 386.00   | Three Hundred EightySix Only                  |
| 9 | Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not less than 1800 kg/m <sup>3</sup> and having a minimum average compressive strength 5.00 N/mm <sup>2</sup> confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                      | Sqm   | 66.01 | 984.00   | Nine Hundred EightyFour Only                  |

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|    | Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.                                                                                                                                                                                                                  | Sqm | 13.52 | 243.00  | Two Hundred FortyThree Only              |
| 11 | Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.                                                                                                                                                                                                            | Sqm | 50.19 | 227.00  | Two Hundred TwentySeven Only             |
| 12 | Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. .                                                                                                                                                                                                          | Sqm | 58.08 | 264.00  | Two Hundred SixtyFour Only               |
| 13 | Providing and fixing Special make glazed Vitrified tiles (Granomite finish) of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special roffe adhesive for flooring and skirting etc., complete including providing spears at required interval and removing stains etc., complete.                                                                                                                                                           | Sqm | 13.52 | 1285.00 | One Thousand Two Hundred EightyFive Only |
| 14 | Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface ( excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 - Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 10 cms. | Sqm | 3.87  | 1762.00 | One Thousand Seven Hundred SixtyTwo Only |

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|    | Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8 m. | Sqm | 5.46  | 2815.00 | Two Thousand Eight Hundred Fifteen Only |
| 16 | Providing and applying two coats with oil bound washable distemper Two Coats of distemper of approved brand and shade on Ceilling & sloped roof including priming coat with distemper primer after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.                                                                                                                                                                                                                                                                                                                                              | Sqm | 50.19 | 118.00  | One Hundred Eighteen Only               |
| 17 | Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. PWD SR 2018-19 It No.15.53.1 Pg. No.120                                                                                                                                                                                                                                                                                                                                                                            | Sqm | 58.08 | 96.00   | NinetySix Only                          |
| 18 | KSRB 7.9: Providing and fixing M.S Grill work for windows and ventilators using M.S flats or M.S fsquare rods or combination of M.S flat and square rods as per approved deisgn, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materail, fixtures, labour and HOM of machinery complete as per specification.                                                                                                                                                                                                                                                                                                                                                              | Kgs | 21.00 | 102.00  | One Hundred Two Only                    |

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| <p>Providing and fixing Chlorinated Poly Vinyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement &amp; the cost of cutting chases &amp; making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 32mm nominal OD pipes.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Mtr | 36.00  | 139.00 | One Hundred ThirtyNine Only |
| <p>Fabricating, supplying &amp; erecting M.S. angular Truss of span upto 10m. The bottom &amp; top member is provided with 50x50x6mm double equal angles, welded back to back and in between top &amp; bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided. All the members are welded together with 6mm gusset plate as per Drawing No.CBS/ SD/K-Mantap/9/MND/97. The entire truss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S angle and welding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges, &amp; hire charges of machineries for cutting, welding, grinding &amp; erection equipments, etc., complete as per specification.</p> | Kgs | 145.80 | 124.00 | One Hundred TwentyFour Only |

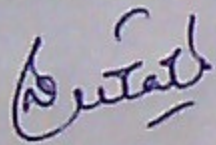
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| <p>PROVIDING TRAPEZOIDAL PROFILED SHEET</p> <p>Providing and installing of pre painted galvanized iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm clear width), 28-30 mm crest height with crest to crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm with minimum Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sqm  | 16.20 | 831.00    | Eight Hundred ThirtyOne Only |
| <p>1.Raw Water pump Qty officer-one number type Mon Block centrifugal operation flow rate - 4M3/hr operation pressure-4.0kg/cm2 type of drive- phase squirrel cage induction motor make- CRITEXmo 2.Multigrated sand filter (MSF) Qty offere-one number Type -Top and bottom flow size-15"x65" operation floe rate- 4M3/hr Operation pressure-4.0kg/cm2 Type of Media-Dual-Sand and anthracite Supporting media-Gravels and Silex MOC of shell-FRP Make PARTNER/Aventura 3.Activated Carbon filter (ACF)Qty Offere -one Number Type Top and bottom flow size 16"x65" operation flow rate-4M3/hr operation pressure-3.5kg/cm2 type of Media Activated carbon flakes Type of resin- 150kgs MOC of shell-FRP make - PARTNER/Aventura JODINE VALUE-500value 4.Micro Cartridge Filter Nos 5.Antiscalent Dosing UntilQty Offere -one number 6.Multistage Centrifugal pumo high pressure pump Qty Offe-one nos Type-Multistage Centrifugal Operation flow rate-4M3/hr operation pressure-10 to 15kg/cm2 material of construction -SS 316 Make pump- Cri/Kirloskar/unique Type of drive motor-three phase squirrel cage indicator KW/BPM</p> | Each | 1.00  | 600000.00 | Six Lakh Only                |
| <p>23 supplying heavy gauge pvc conduit pipe... dia confirming to IS 2509 with suitable size benda. Junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using havey gauge saddles at an intereval of 70mm using NF screws</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | mtr  | 28.00 | 65.00     | SixtyFive Only               |

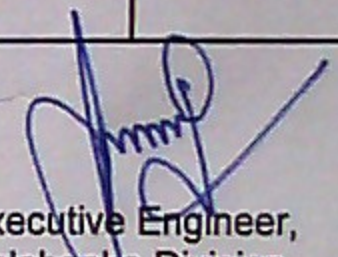
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|    | mm dia 2mm/2.5mm thick heavy VC conduit pipe with suitable size metal/PVC junction boxes adhesive and running before concreting the conduit should be tied to the cement rods by using binding wires and ways of junction boxes and pipe ends be covered using PVC end enclosures. with 18SWG GI fish wire wherever necessary.                                                            | mtr  | 28.00  | 53.00  | FiftyThree Only              |
|    | e cutting in the wall suppling.. Dia 2.5mm thick heavy gauge PVC Conduit with bends, metal junction boxes adhesive etc., and bracing U or J hooks and ent plastering up to the surface of the brick al and run with 18 SWG GI fish wire run ough out conduit wherever necessary.                                                                                                          | mtr  | 23.00  | 54.00  | FiftyFour Only               |
|    | upplying and fixing sheet metal box made out 18 SWG sheet metal with necessary holes or cable/conduit entry as required with one coat of approved make etc.,                                                                                                                                                                                                                              | Each | 3.00   | 111.00 | One Hundred Eleven Only      |
|    | upplying and fixing PVC/ Metal conduit accessories. (3/5)                                                                                                                                                                                                                                                                                                                                 | Each | 1.00   | 60.00  | Sixty Only                   |
|    | Suppling and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work complet.                                                                                                                                                                                                                   | mtr  | 10.00  | 102.00 | One Hundred Two Only         |
| 29 | Suppling and wiring adopting loop system in existing PVC Conduit/ casting capping using copper PVC insulated multi strand 2x1.5sqmm copper wire with a 6 Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box. The outhier end of the wires shall be terminated with sufficient loose lenght in a wood / PVC round block. compelete for each outlet. | Each | 12.00  | 275.00 | Two Hundred SeventyFive Only |
| 30 | Suppling and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos, of machines screws, bolts nuts etc., complete on the existing metal/PVC box.                                                                                                                                                                     | No   | 5.00   | 175.00 | One Hundred SeventyFive Only |
| 31 | Supplying and fixing of 32 Amps security and energy saving DP switch with key tag suitable to operate on 230 volts, 50Hz AC supply and completely wired on existing box.                                                                                                                                                                                                                  | Each | 2.00   | 680.00 | Six Hundred Eighty Only      |
| 32 | Wiring for lighting/power circuit using one of pvc insulated 1100v grade, multistrand copper conductor singal core cable in open or concealed system of wiring. a)1.5sqmm                                                                                                                                                                                                                 | mtr  | 258.00 | 20.00  | Twenty Only                  |

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|    | Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, screws at an interval of 300mm... Etc as required.                                                                                                                                                                                                                                                                                                                                                                      | Each | 15.00 | 22.00  | TwentyTwo Only              |
| 34 | Supplying PVC/GI Flexible conduit pipe.. Mm dia fixing on surface over inverted wooden pugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and either end of the pie terminated completely.                                                                                                                                                                                                                                                                             | Each | 16.00 | 22.00  | TwentyTwo Only              |
| 35 | Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit using necessary machine screws.                                                                                                                                                                                                                                                                                                                                                                                             | Each | 16.00 | 11.00  | Eleven Only                 |
| 36 | Providing and fixing Chlorinated Poly Vinyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 20mm nominal OD pipes. | Rmt  | 25.00 | 253.00 | Two Hundred FiftyThree Only |



Signature of the Contractor



Executive Engineer,  
Yelahanka Division,  
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